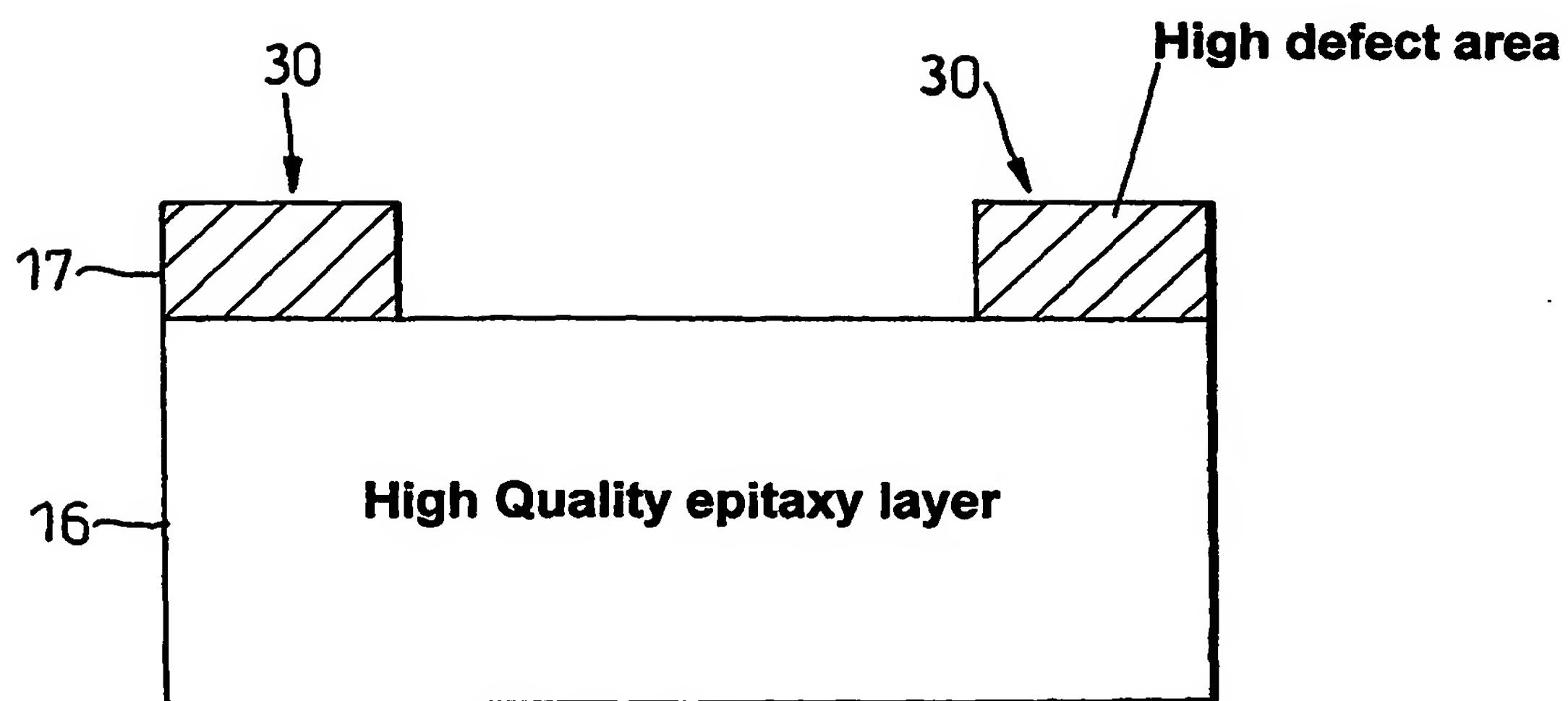


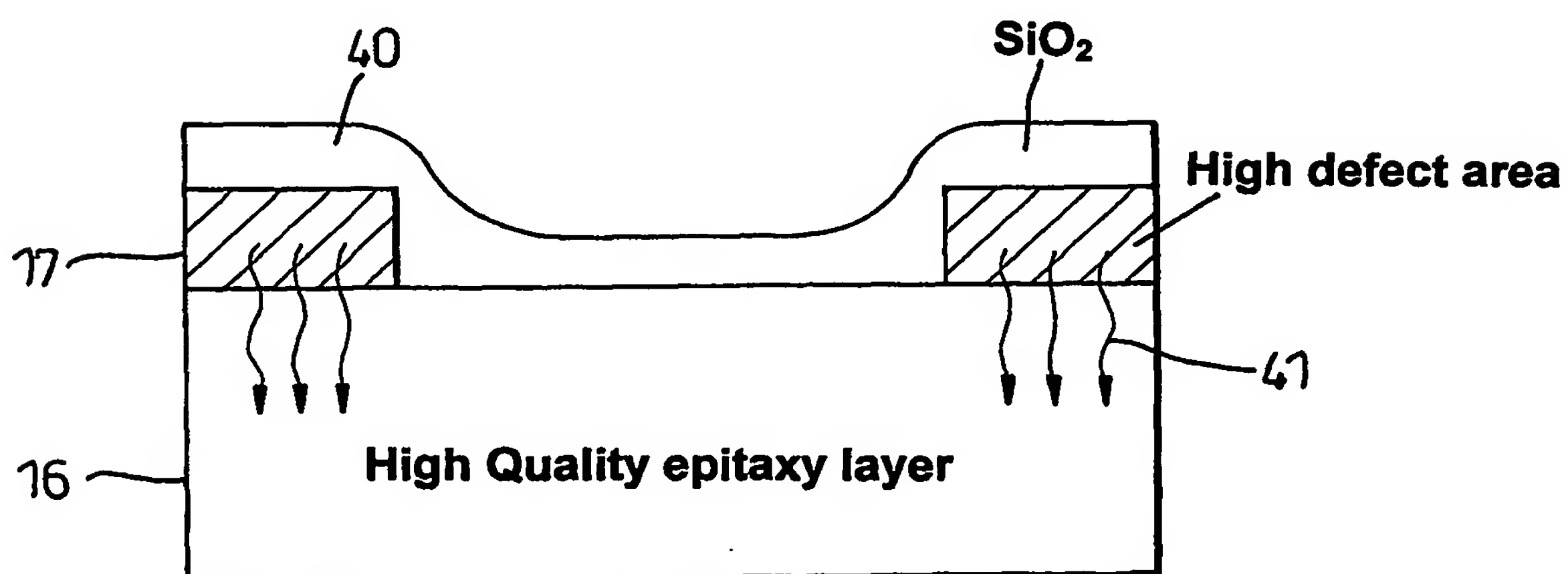
***Fig. 1***

Layer No.	Material	Mole (start)	Fraction (finish)	Strain %	PL (nm)	Thickness ( $\mu\text{m}$ )	CV (start)	Level (finish)	type	Dopant
12	GaAs				cap	0.005	$>2\text{e}19$		p	Zn
11	Al(x)GaAs	0.5		0	*** (see below)	0.5	$>2\text{e}19$		p	Zn
10	GaAs					0.1	$>2\text{e}19$		p	Zn
9	Al(x)GaAs	0.32	0.0			0.12	$2\text{e}18$		p	Zn
8	Al(x)GaAs	0.32				1.7	$2\text{e}18$		p	Zn
7	Al(x)GaAs	0.32				0.2	$2\text{e}17$	$2\text{e}18$	p	Zn
6	Al(x)GaAs	0.1	0.32			0.11			U/d	U/d
5	GaIn(x)As	0.17		1.19	970 nm	0.008			U/d	U/d
4	Al(x)GaAs	0.32	0.1			0.11			U/d	U/d
3	Al(x)GaAs	0.32				1	$2\text{e}18$		n	Silicon
2	Al(x)GaAs	0	0.32			0.25	$2\text{e}18$		n	Silicon
1	GaAs					0.5	$2\text{e}18$		n	Silicon

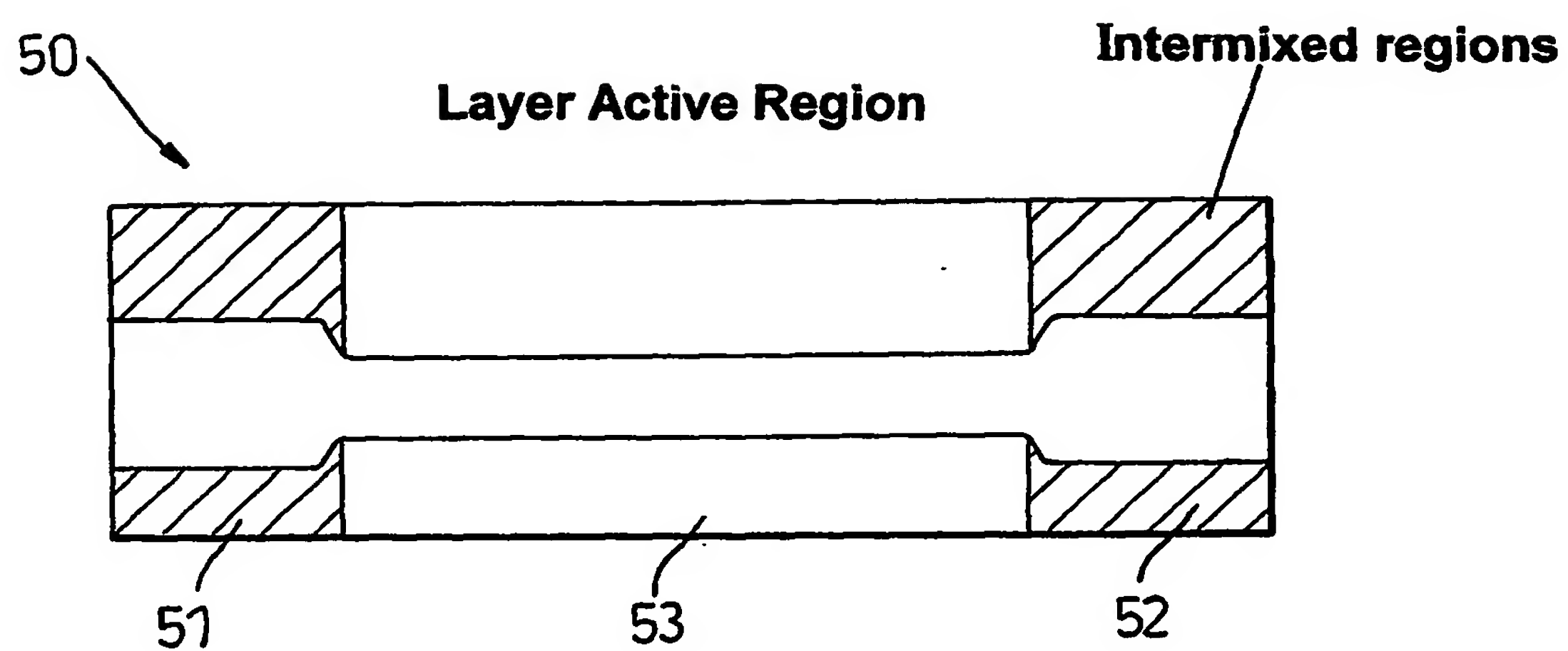
*Fig. 2*



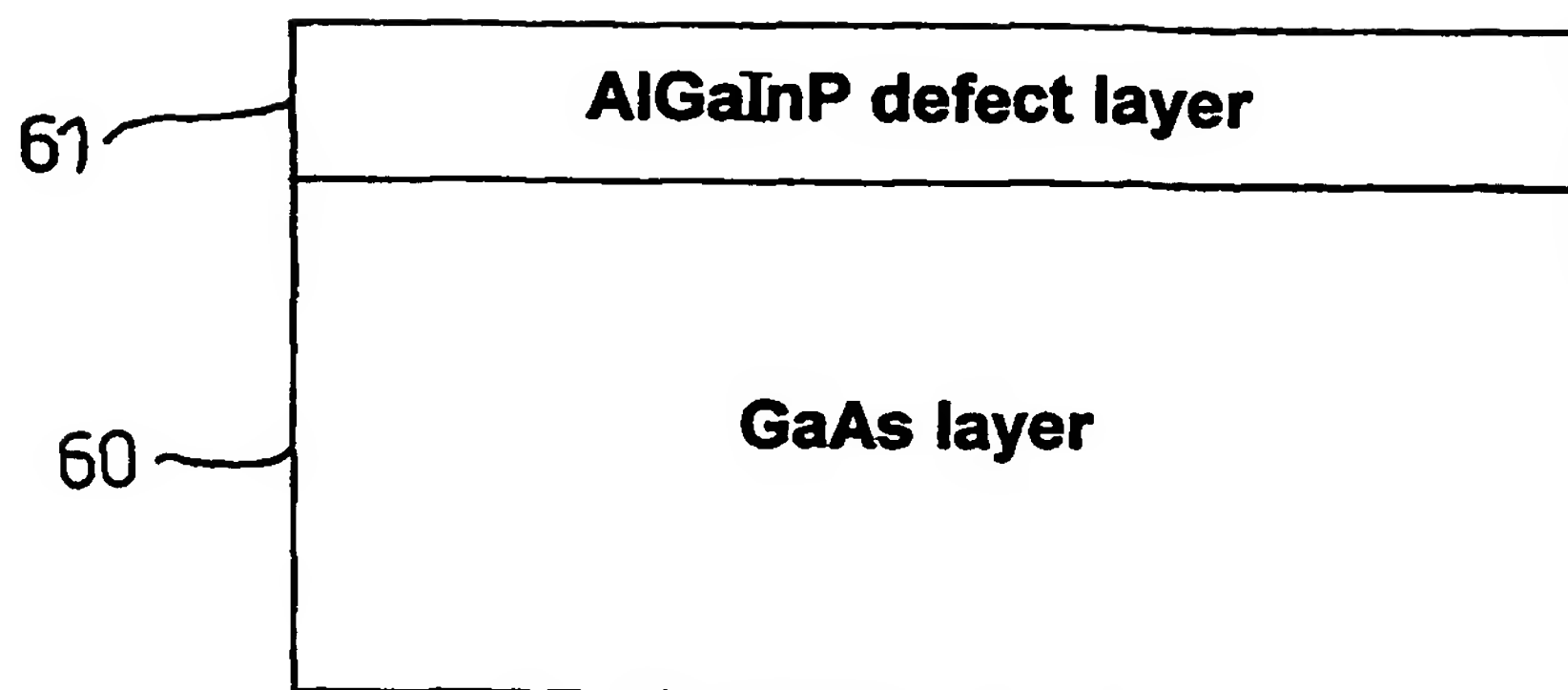
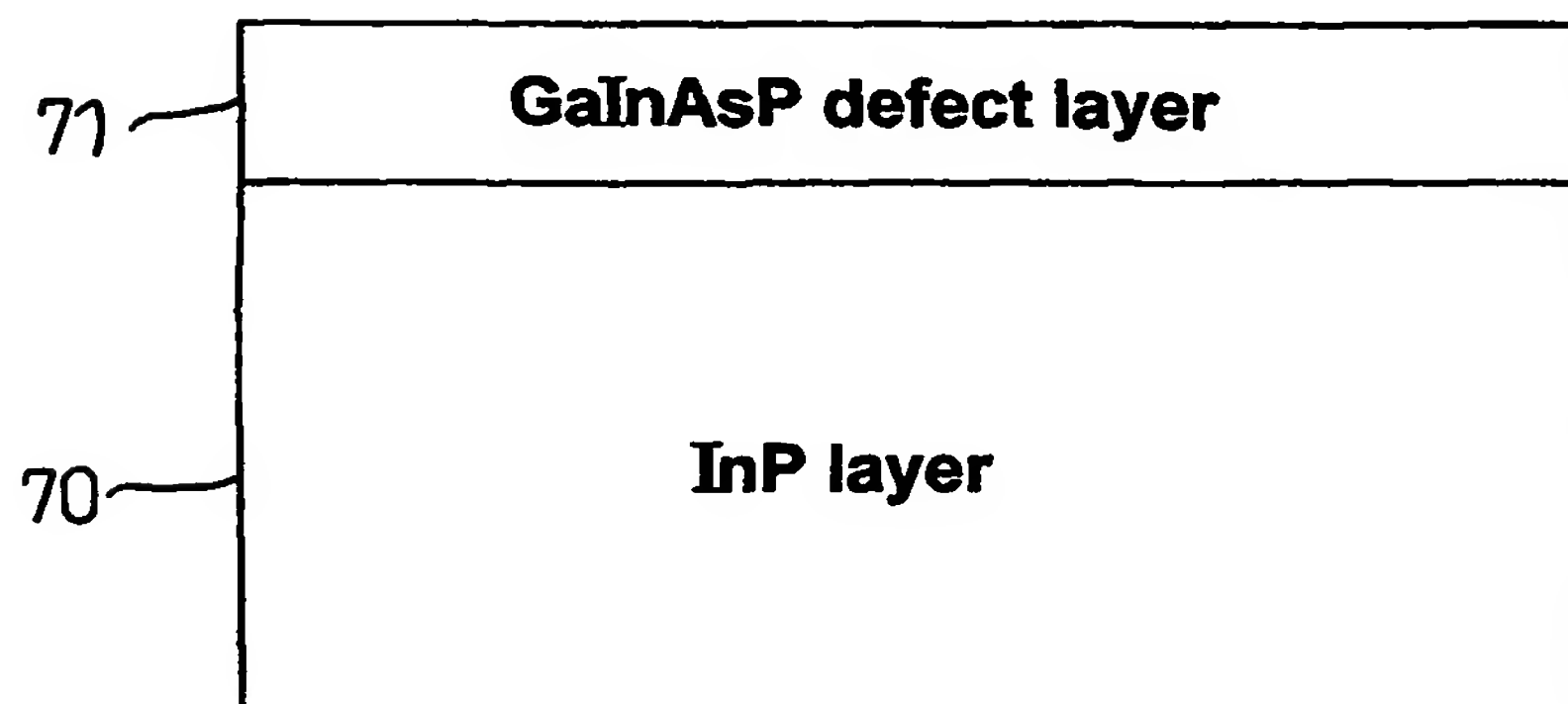
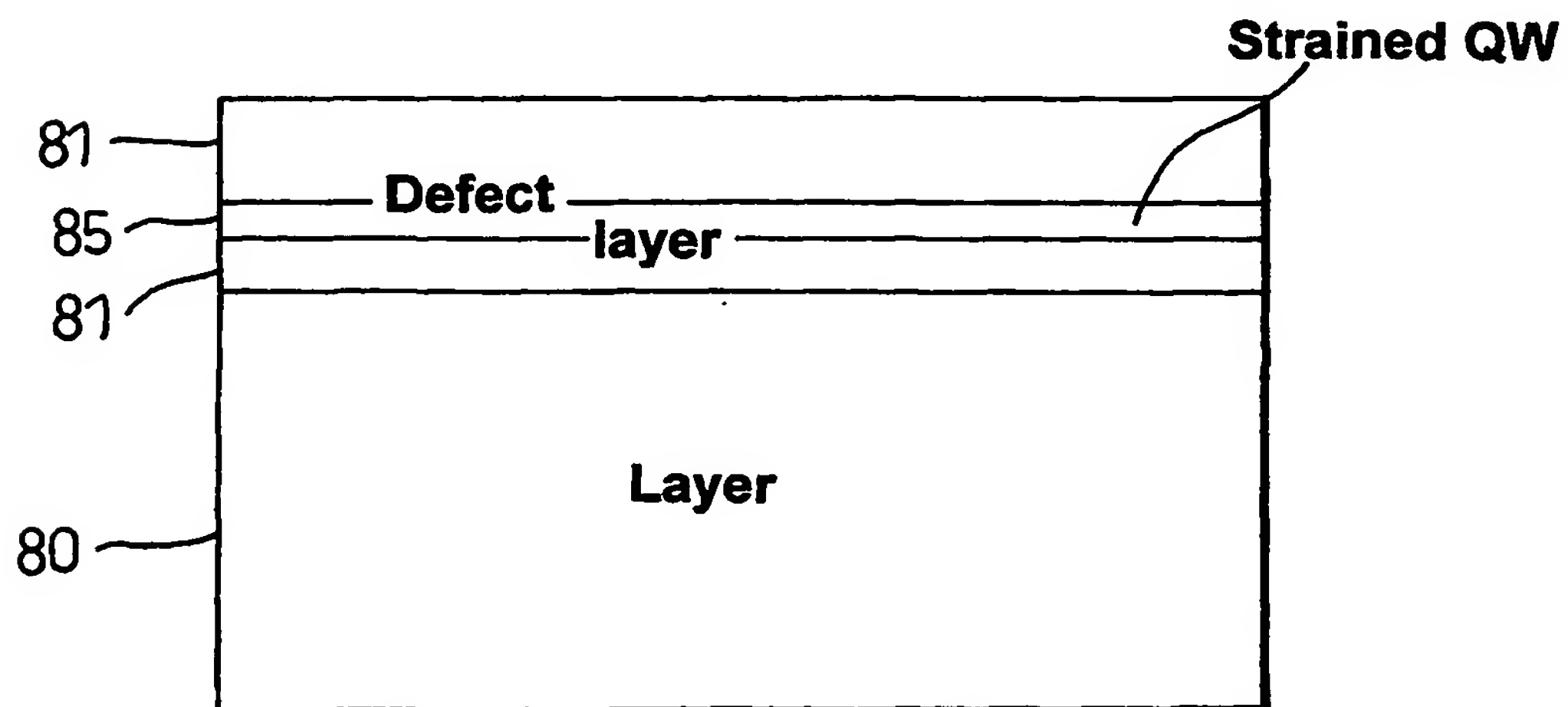
***Fig. 3***

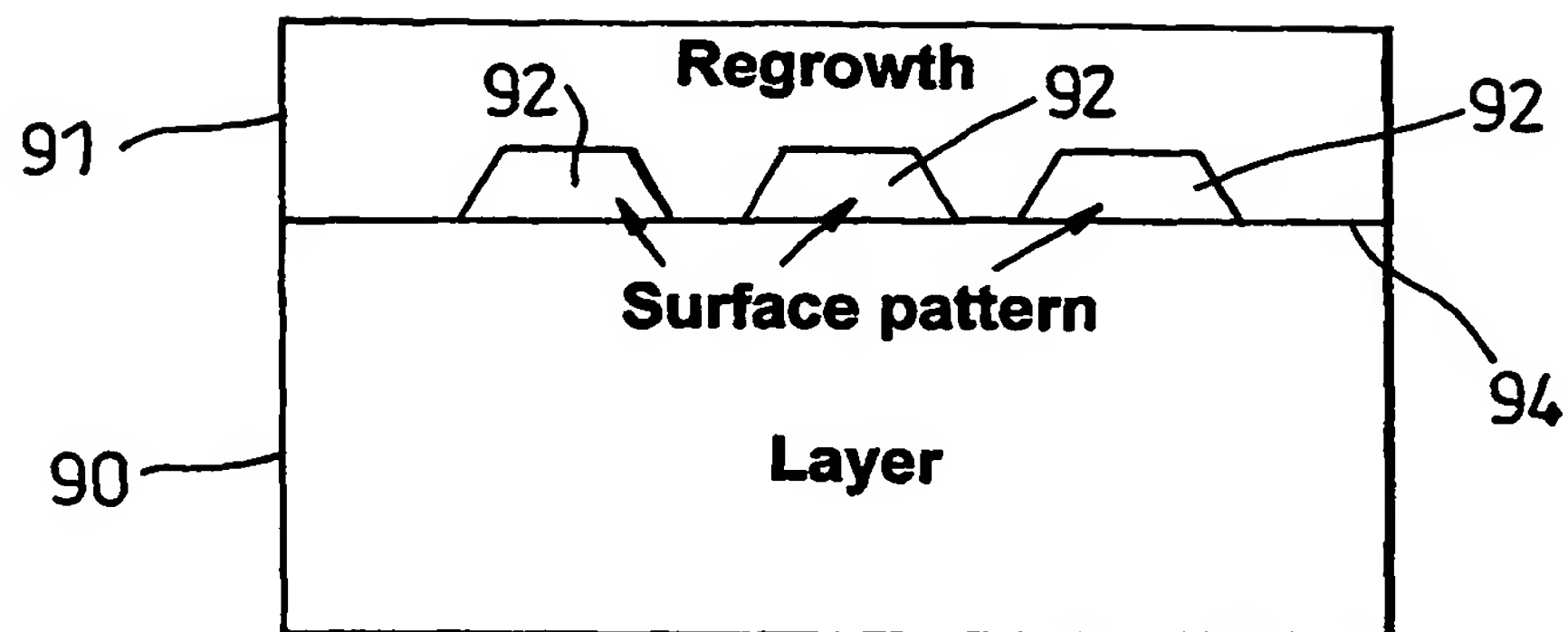


***Fig. 4***

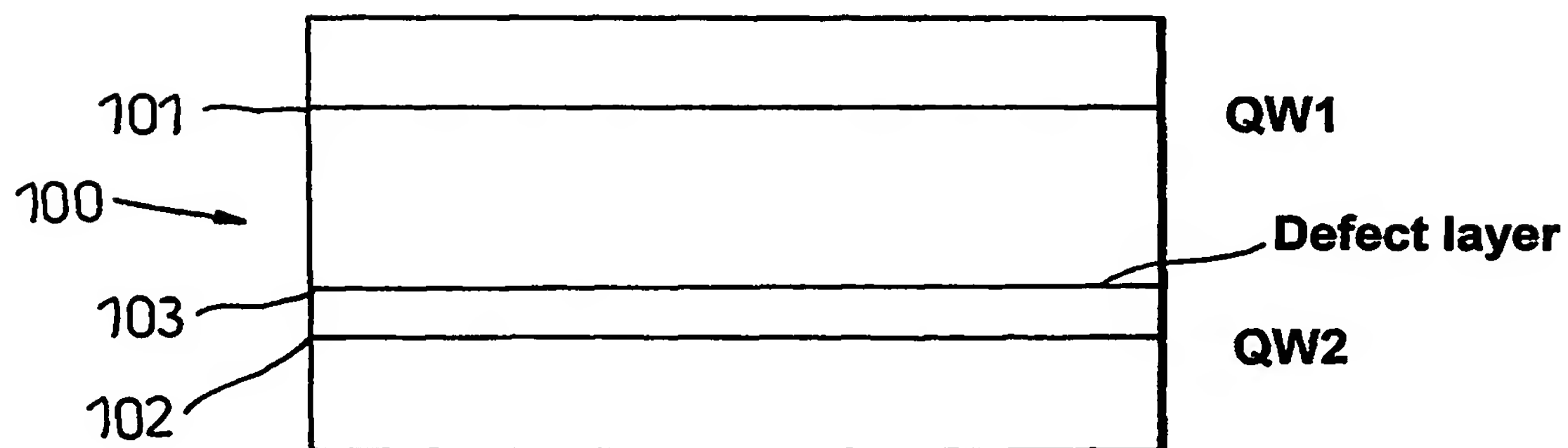


***Fig. 5***

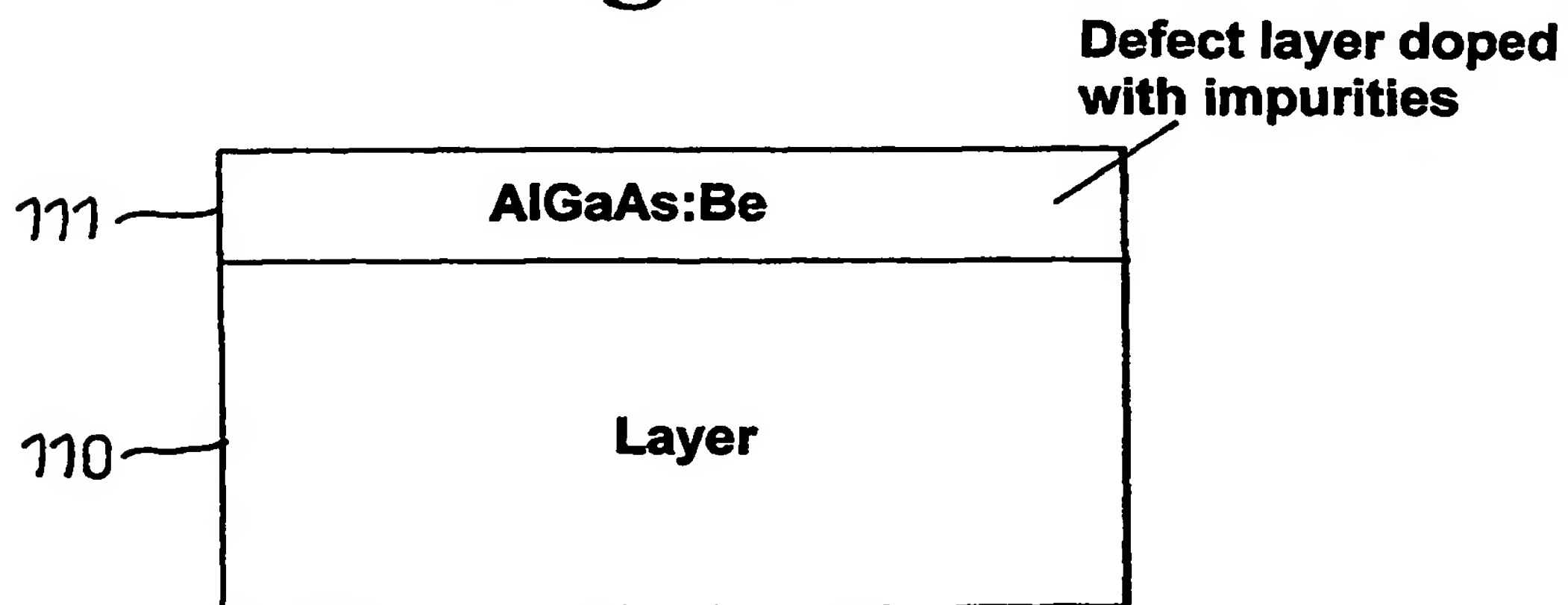
***Fig. 6******Fig. 7******Fig. 8***



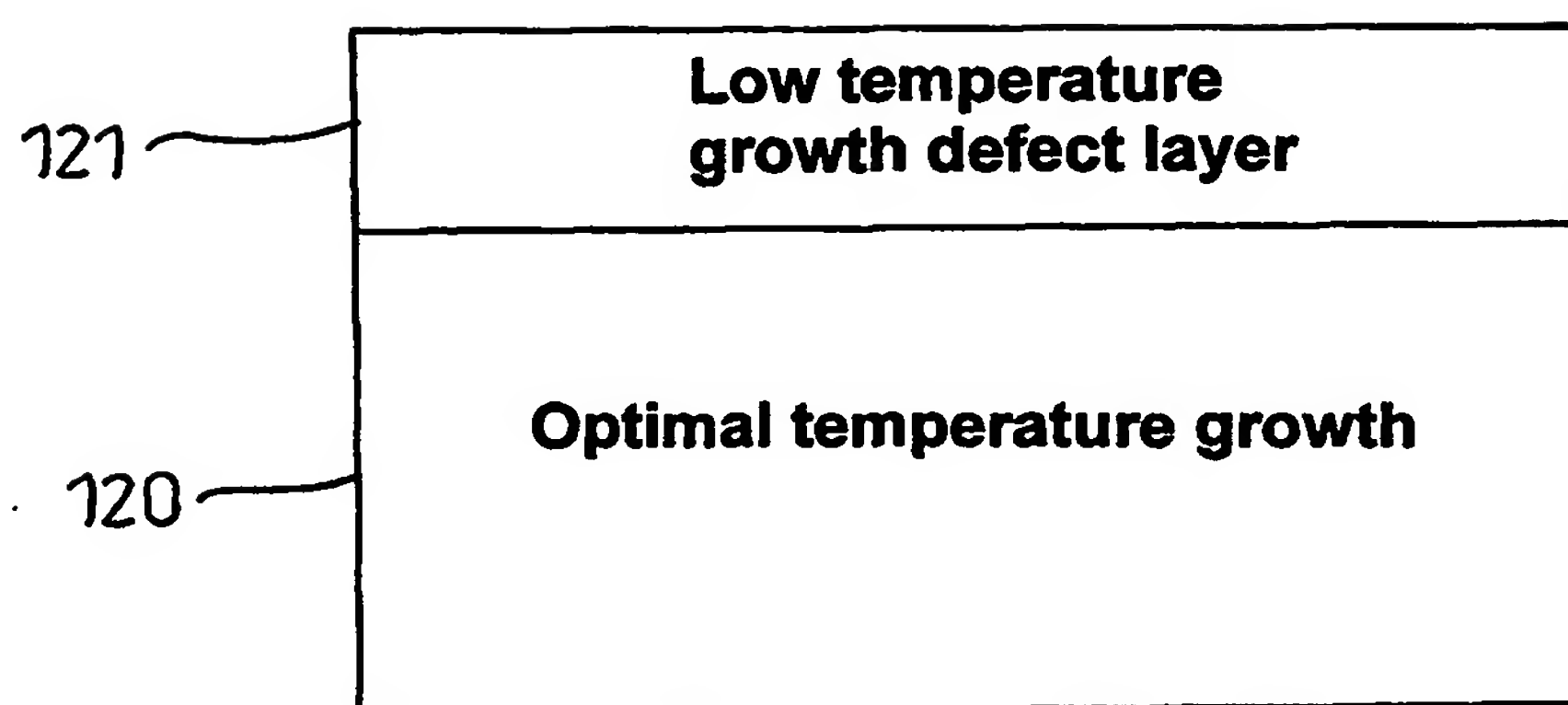
**Fig. 9**



**Fig. 10**



**Fig. 11**



***Fig. 12***